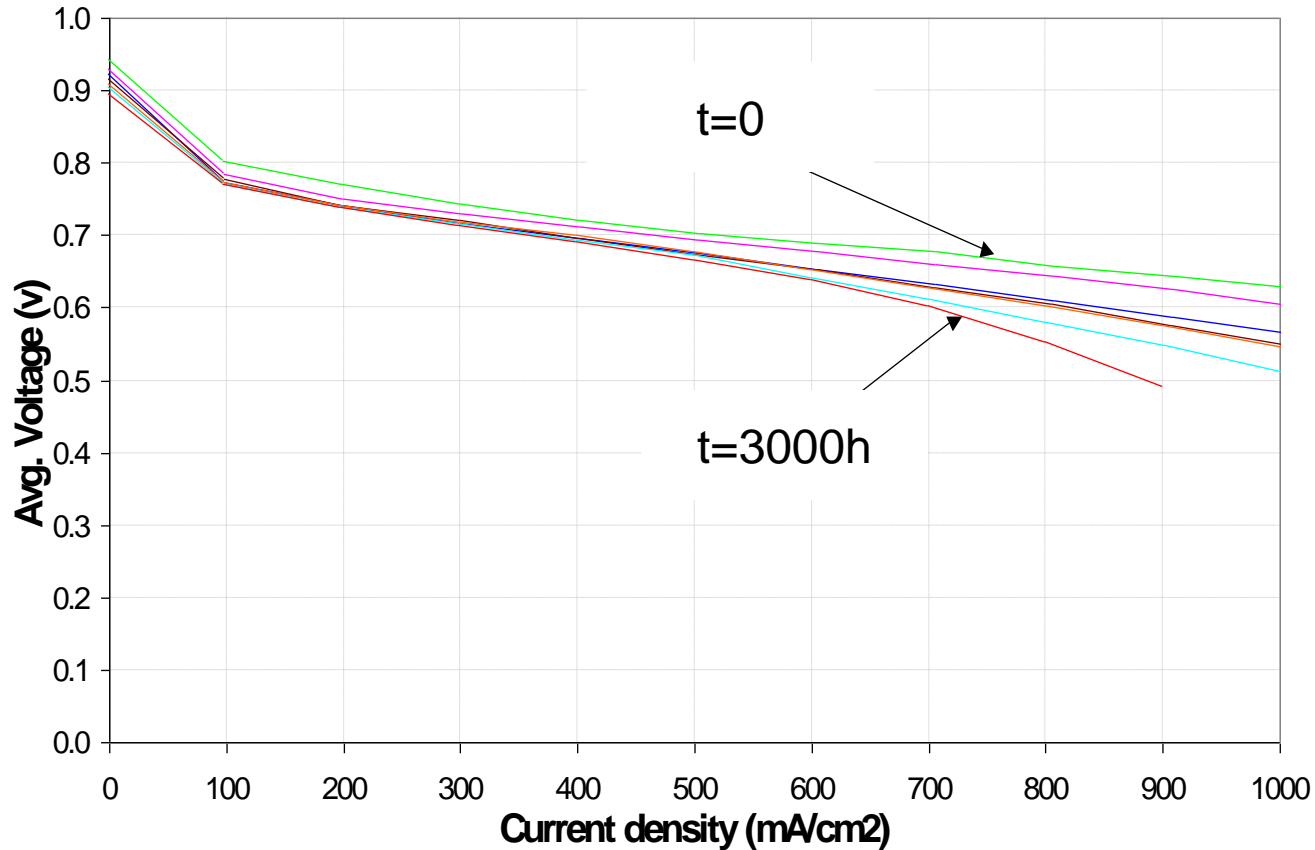


DOE Hydrogen and Fuel Cells Program Record	
Record #: 5036a	Date: April 20, 2006
Title: Backup Reference - Fuel Cell Stack Durability - DOE Only	
Originator: Valri Lightner	
Approved by:	Date:

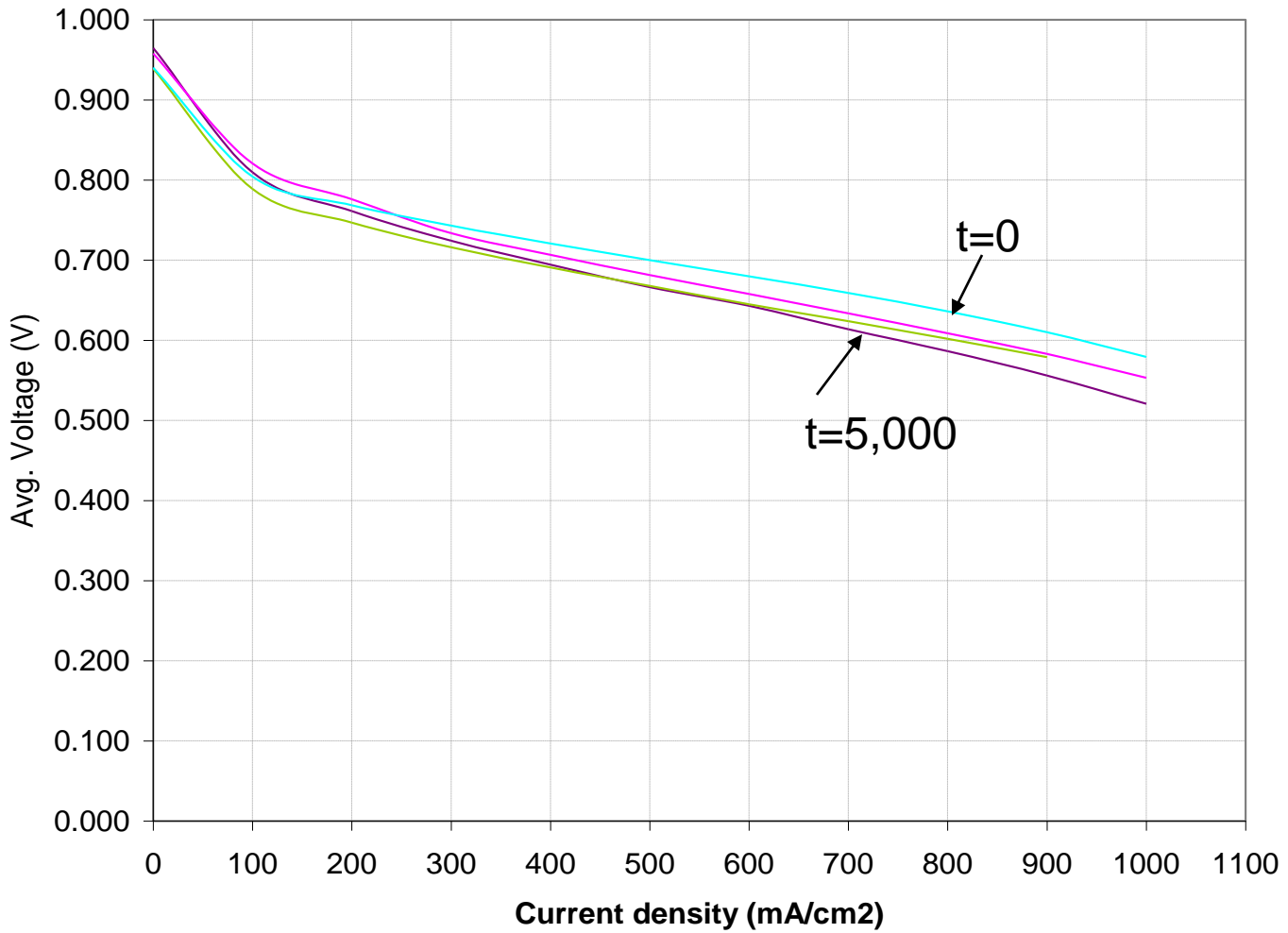


2004 Cyclic Durability Status



2,800 h of cyclic durability achieved with less than 10% performance loss (at 600 mA/cm²). [Medium acceleration].

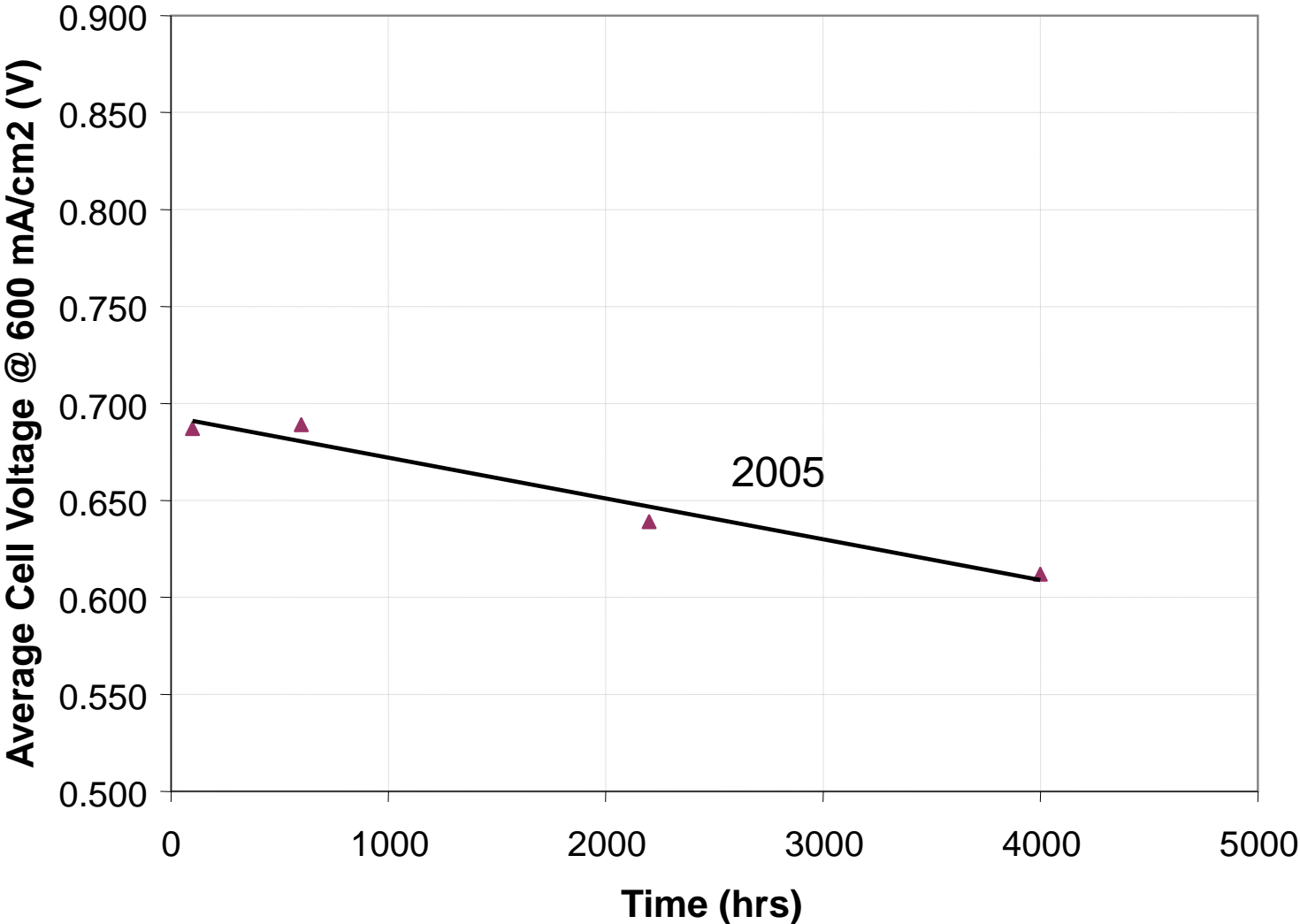
2005 Cyclic Durability Status



4,000 h of cyclic durability achieved with less than 10% performance loss (at 600 mA/cm²). [High acceleration].

Cyclic Fuel Cell Stack Durability Status (20 cells)

UTC Fuel Cells



Accelerated Cyclic Testing

2005=4,000 h (first 1,000 hours ss; 10% degradation)

Decay Rate=20 μ V/h (vs. steady state decay of 2 μ V/h)